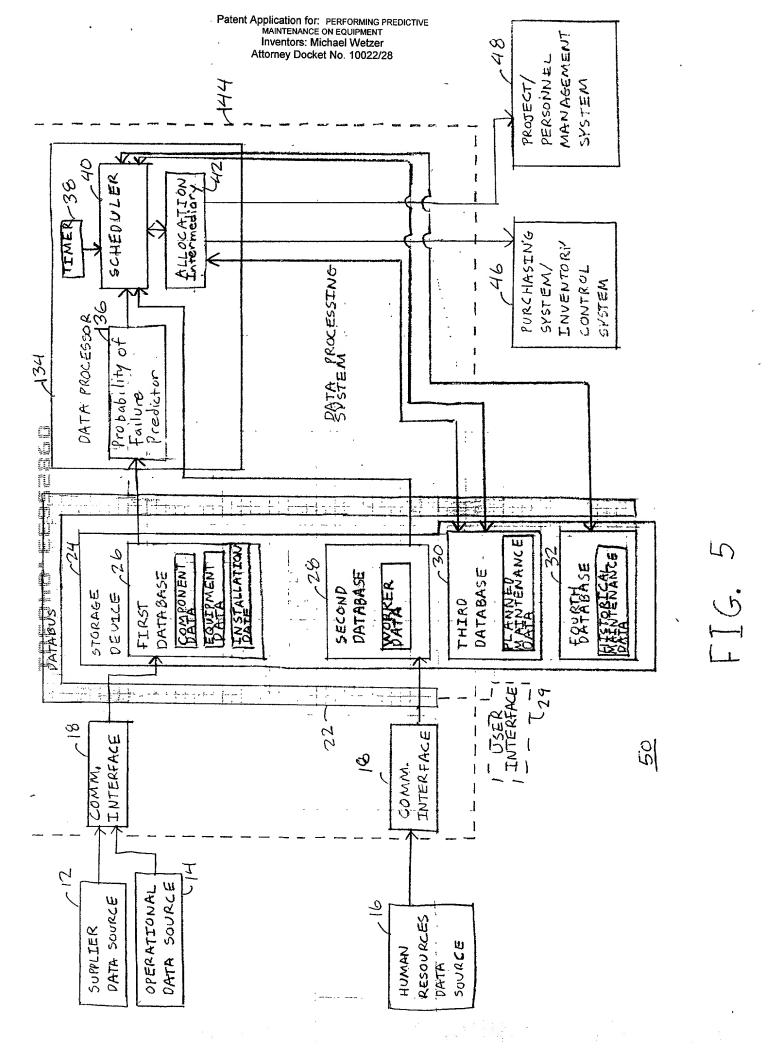


FIG. 4 510 ORGANIZE A FIRST DATABASE OF COMPONENT DATA ON COMPONENTS OF AN EQUIPMENT. 522 ORGANIZE A SECOND DATABASE OF MAINTENANCE PERSONNEL ASSOCIATED WITH CORRESPONDING QUALIFICATIONS. ORGANIZE THE SECOND DATABASE TO CONTAIN CORRESPONDING LOCATIONS AND AVAILABLE TIME PERIODS FOR RESPECTIVE MAINTENANCE PERSONNEL. ASSOCIATE AT LEAST ONE LONGEVITY ESTIMATE WITH THE CORRESPONDING COMPONENT DATA. 516 SCHEDULE MAINTENANCE FOR A MAINTENANCE TIME PERIOD FOR AT LEAST ONE OF THE COMPONENTS BASED ON THE FIRST DATABASE, THE SECOND DATABASE, THE ASSOCIATED LONGEVITY ESTIMATE, AND AN ELAPSED TIME WITH RESPECT TO AN INSTALLATION DATE OF THE AT LEAST ONE COMPONENT. ALLOCATE THE MAINTENANCE PERSONNEL TO PERFORM THE SCHEDULED MAINTENANCE DURING THE MAINTENANCE TIME PERIOD CONSISTENT WITH THE FIRST DATABASE AND THE SECOND DATABASE, THE LOCATIONS, AVAILABLE TIME PERIODS, AND A PROSPECTIVE LOCATION OF THE EQUIPMENT. 520 PROCURE THE AT LEAST ONE COMPONENT CONSISTENT WITH THE FIRST DATABASE, THE SCHEDULED MAINTENANCE TIME PERIOD, AND THE ALLOCATION OF THE MAINTENANCE PERSONNEL.



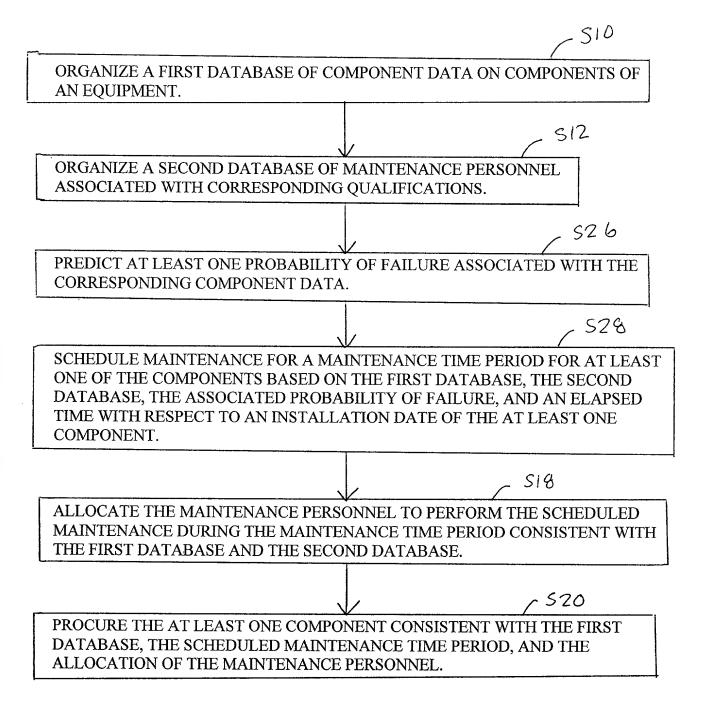
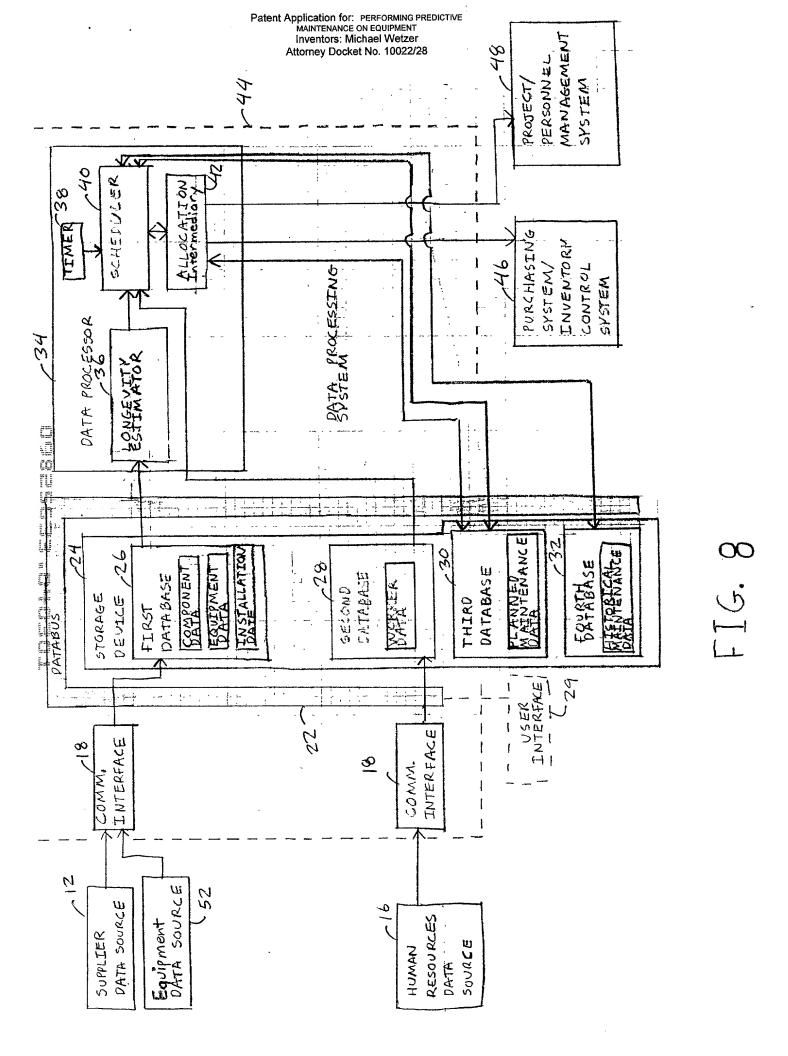
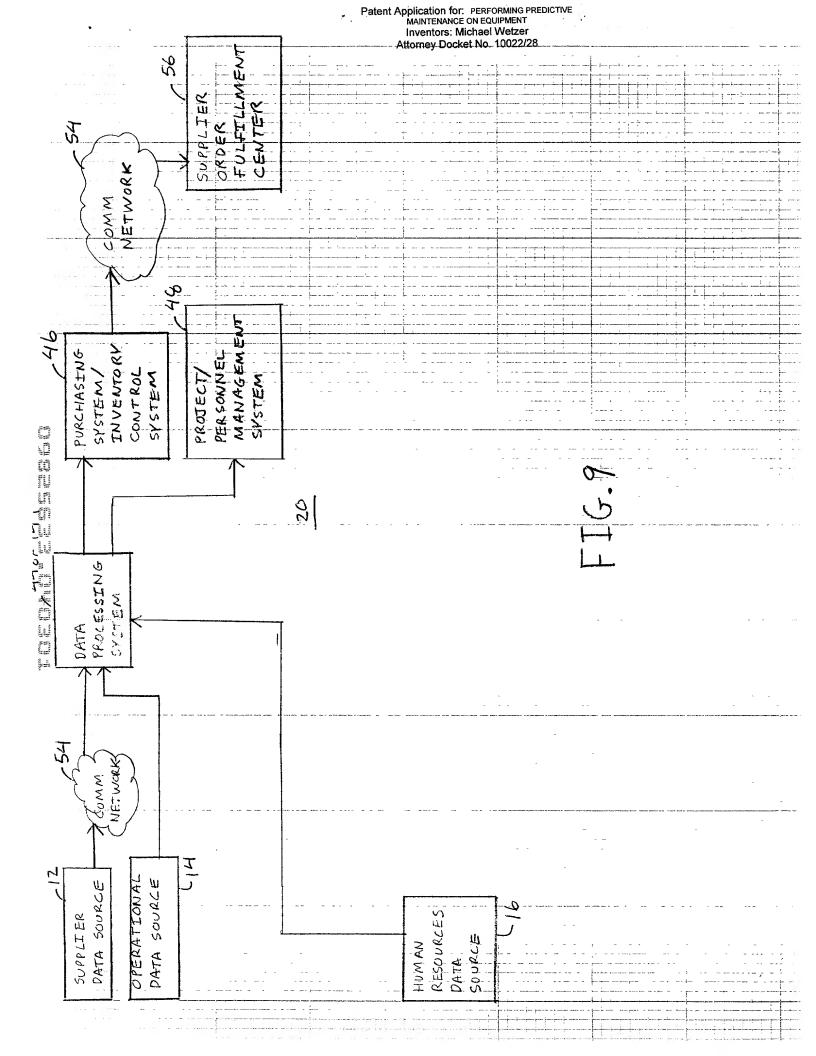
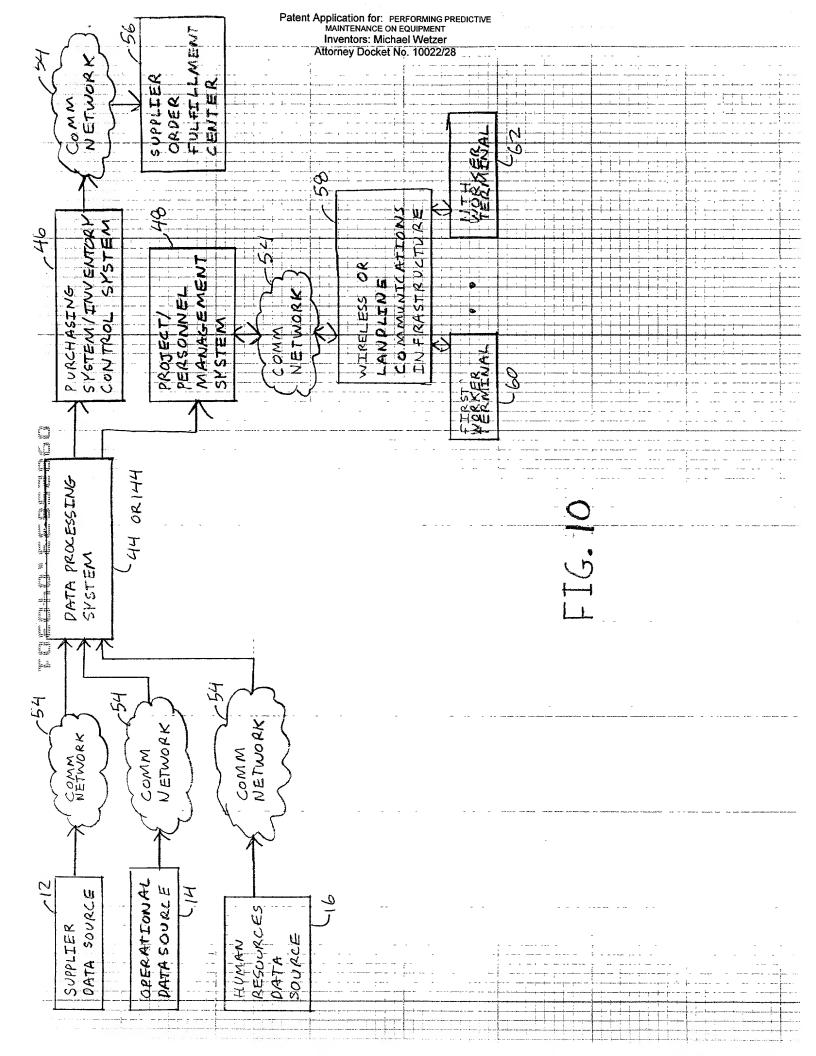


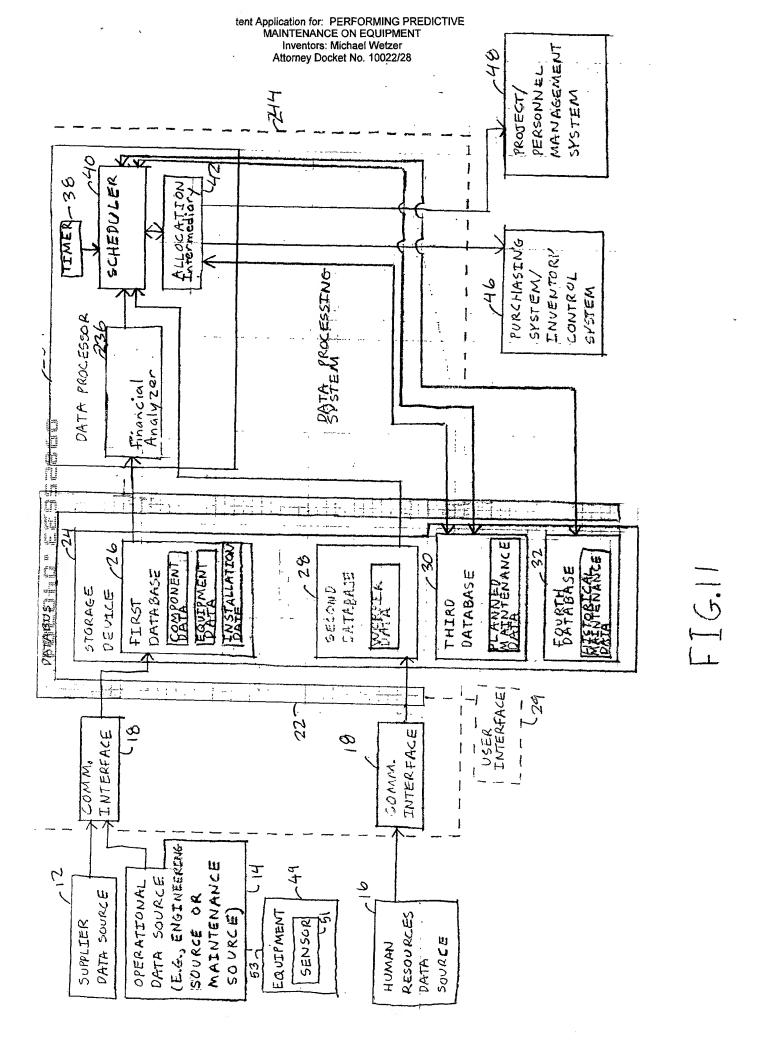
FIG. 7

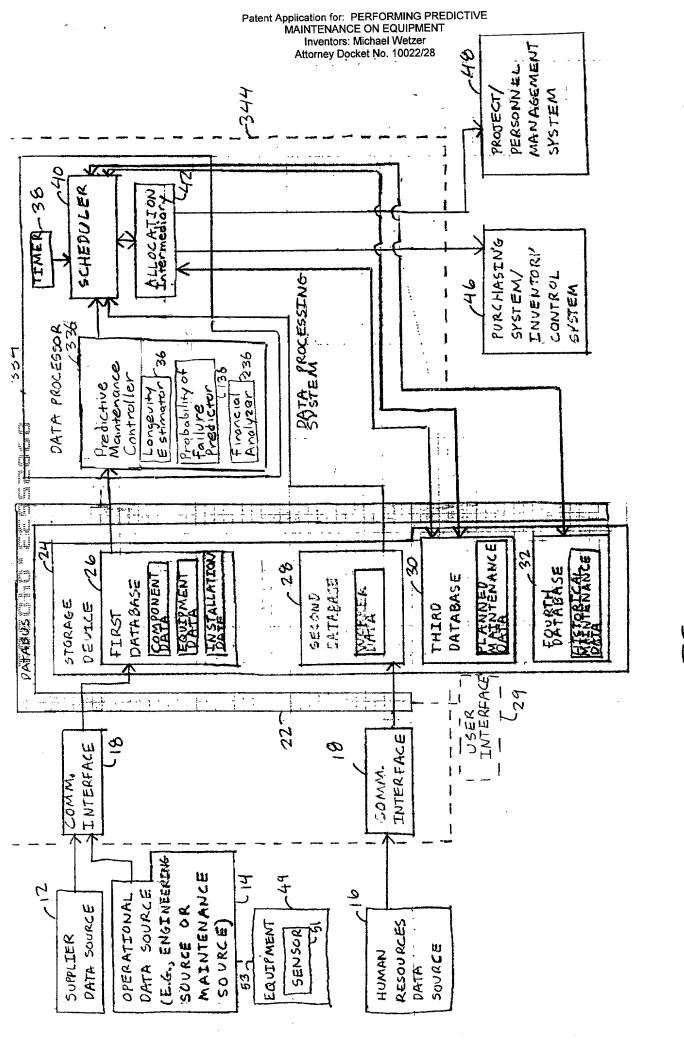
510 ORGANIZE A FIRST DATABASE OF COMPONENT DATA ON COMPONENTS OF AN EQUIPMENT. 512 ORGANIZE A SECOND DATABASE OF MAINTENANCE PERSONNEL ASSOCIATED WITH CORRESPONDING QUALIFICATIONS. - SZ6 PREDICT AT LEAST ONE PROBABILITY OF FAILURE ASSOCIATED WITH THE CORRESPONDING COMPONENT DATA. IF THE PROBABILITY OF FAILURE FOR A CORRESPONDING COMPONENT EXCEEDS A THRESHOLD VALUE OF PROBABILITY FOR FAILURE AT THE ELAPSED TIME, SCHEDULE MAINTENANCE FOR A MAINTENANCE TIME PERIOD FOR AT LEAST ONE OF THE COMPONENTS BASED ON THE FIRST DATABASE, THE SECOND DATABASE, THE ASSOCIATED PROBABILITY OF FAILURE, AND AN ELAPSED TIME WITH RESPECT TO AN INSTALLATION DATE OF THE AT LEAST ONE COMPONENT. 518 ALLOCATE THE MAINTENANCE PERSONNEL TO PERFORM THE SCHEDULED MAINTENANCE DURING THE MAINTENANCE TIME PERIOD CONSISTENT WITH THE FIRST DATABASE AND THE SECOND DATABASE. 520 PROCURE THE AT LEAST ONE COMPONENT CONSISTENT WITH THE FIRST DATABASE, THE SCHEDULED MAINTENANCE TIME PERIOD, AND THE ALLOCATION OF THE MAINTENANCE PERSONNEL.











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